PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year)	in its capacity as elected Office
23 August 2000 (23.08.00)	In its capacity as elected office
International application No. PCT/US99/29914	Applicant's or agent's file reference 342312003740
International filing date (day/month/year)	Priority date (day/month/year)
15 December 1999 (15.12.99)	16 December 1998 (16.12.98)
Applicant	
RODRIGUEZ, John, Michael et al	
1. The designated Office is hereby notified of its election mad X in the demand filed with the International Preliminary 14 July 2000 (in a notice effecting later election filed with the International Preliminary 2. The election X was was not was not was not made before the expiration of 19 months from the priority Rule 32.2(b).	y Examining Authority on: 14.07.00) national Bureau on:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Manu Berrod
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

US9929914

From the INTERNATIONAL SEARCHING AUTHORITY

MORRISON & FOERSTER LLP Attn. LEHNHARDT, Susan K. 1290 Avenue of the Americas New York. New York 10104-0012

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

UNITED STATES OF AMERICA	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 31/03/2000		
Applicant's or agent's file reference			
342312003740	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/US 99/29914	(day/month/year) 15/12/1999		
Applicant ELI LILLY AND COMPANY et al.			
1. X The applicant is hereby notified that the International Search	n Report has been established and is transmitted herewith.		
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):		
When? The time limit for filing such amendments is norma International Search Report; however, for more de	ally 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35			
For more detailed instructions, see the notes on the accordance	mpanying sheet.		
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under		
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:		
	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.		
no decision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.		
4. Further action(s): The applicant is reminded of the following:			
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publications	of withdrawal of the international application, or of the n Rules 90 <i>bis.</i> 1 and 90 <i>bis.</i> 3, respectively, before the		
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 mo	al preliminary examination must be filed if the applicant nths from the priority date (in some Offices even later).		
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.			

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Véronique Baillou

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

ES TO FORM PCT/ISA/220 (continue

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

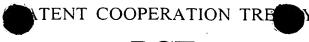
If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

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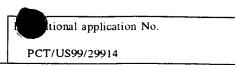
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 342312003740	FOR FURTHER ACTION		Fransmittal of International Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/r	nonth/year) Priority date	e (day/month/year)	
PCT/US99/29914	15 DECEMBER 1999	16 DECE	MBER 1998	
International Patent Classification (IPC) IPC(7): C07K 7/56; A61K 38/12; C				
Applicant ELI LILLY AND COMPANY				
been amended and are the (see Rule 70.16 and Section 1)	transmitted to the applicant total of sheets. panied by ANNEXES, i.e., she e basis for this report and/or sh tion 607 of the Administrative	according to Article 36. ets of the description, claim eets containing rectification	s and/or drawings which have	
These annexes consist of a to	otal of sheets.			
3. This report contains indication	as relating to the following it	ems:		
I X Basis of the repor	rt			
II Priority				
	nt of report with regard to no	velty, inventive step or i	ndustrial applicability	
IV Lack of unity of	invention			
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents	cited			
VII Certain defects in the international application				
VIII Certain observations on the international application				
Date of submission of the demand	Date	of completion of this report	L	
14 JULY 2000	2	5 FEBRUARY 2001		
Name and mailing address of the IPEA/	US Auth	orized officer	TERRY J. DEY O	
Commissioner of Patents and Tradem Box PCT Washington, D.C. 20231		ADMA BASKAŖ	PARALEGAL SPECIALIST TECHNOLOGY CENTER 1600	
Facsimile No. (703) 305-3230	Telep	hone No. (703) 308-0196	S CONTRA 1800	





I.	Ba	sis o	f the re	port				
1.	With	regai	rd to the	elements of the inter	national applicat	on:*		
	$\overline{\mathbf{x}}$	the	internati	onal application	as originally fi	led		
	\mathbf{x}	the	descripti	ion:				
	ட	page	es	1-33				, as originally filed
			es	>10>10				, filed with the demand
		page	es	NONE				
	X		claims:	34-43				
			es es			as amended (togeth	er with any e	, as originally filed tatement) under Article 19
		-	es				•	, filed with the demand
			es	>10>10				, med with the demand
		F-6			,			
	X	the	drawing	s:				
		page	es	NONE				, as originally filed
		page	es					, filed with the demand
		page	es	NONE		, filed with the letter of	of	
		. •						
	X			e listing part of the NONE	_			
			es					, as originally filed
								, filed with the demand
		page	~» <u></u>			, inca with the letter o		
2.	the :	intern	ational a	polication was filed	Lunless otherwi	se indicated under this item	1	thority in the language in which which is:
	\sqsubseteq	the l	anguage	of a translation	furnished for t	he purposes of internation	onal search (u	nder Rule 23.1(b)):
		the l	anguage	of publication o	f the internation	onal application (under R	Rule 48.3(b)).	
		the la		of the translation for	imished for the	purposes of international pr	reliminary exar	nination (under Rules 55.2 and/
3.		_		•		sequence disclosed in the pasis of the sequence listing		application, the international
	<u> </u>			the international		-	······································	
						tion in computer readabl	e form.	
	\exists	furni	shed sul	bsequently to this	Authority in	written form.		
	\Box	furni	shed sul	bsequently to this	Authority in	computer readable form.		
		The inter	statemen national	t that the subsequ application as file	ently furnished d has been furn	written sequence listing on ished.	does not go be	yond the disclosure in the
		The s been	statement furnished	that the information.	on recorded in c	omputer readable form is i	dentical to the	writen sequence listing has
4.	X	The	amendn	nents have resulte	d in the cance	llation of:		
		X	the de:	scription, pages_	NONE			
		X		ims, Nos.	NONE			
		$\overline{\mathbf{x}}$		wings, sheets/fig	NONE	· · · · · · · · · · · · · · · · · · ·		
5.		لتت Thia				mandmanta had not been	ada aines thee	hava haan aansidad t
٥.	Ш					nendments had not been ma e Supplemental Box (Rule		have been considered to go
*	Repla in the	iceme. is rep	nt sheets oort as "c	which have been fur	nished to the rec	eiving Office in response to a	an invitation una	ler Anicle 14 are referred to a amendments (Rules 70.16

**Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT



statement			
Novelty (N)	Claims	1-23	Y
	Claims		
Inventive Step (IS)	Claims	1-23	Y
inventive step (18)	Claims	NOVE	N
Industrial Applicability (IA)	Claims	1-23	Y
	Claims	NONE	N
citations and explanations (Rule Claims 1-23 MEET the criteria set out in Pelaimed cyclic peptide compound and methoarapsilosis) and parasitic activity (Pneumonation)	CT Anicle 33(2) nods of inhibiting pocystis carinii) us	fungal (Candida albicans, Aspers	not teach or fairly suggest the gillus furnigatis and Candida
 NONE			
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PATENT COOPERATION TREATY

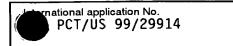
PCT

INTERNATIONAL SEARCH REPORT

(PCT Articl 18 and Rules 43 and 44)

Applicant's or agent's file reference 342312003740		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.		
International application No.				
PCT/US 99/29914	15/12/1999	16/12/1998		
Applicant				
ELI LILLY AND COMPANY et	al.	· ·		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant		
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.		
1. Basis of the report				
	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the		
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of the	he international application furnished to this		
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing : 				
	onal application in written form.			
filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readble form.				
turnished subsequently to this Authority in computer readble form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the				
international application as filed has been furnished.				
the statement that the inte	ormation recorded in computer readable form is	s identical to the written sequence listing has been		
2. X Certain claims were fou	nd unsearchable (See Box I).	-		
3. Unity of invention is lacking (see Box II).				
4. With regard to the title ,				
X the text is approved as su	bmitted by the applicant.	•		
the text has been established by this Authority to read as follows:				
5. With regard to the abstract,		1		
X the text is approved as su		_		
	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search rep			
6. The figure of the drawings to be pub	lished with the abstract is Figure No.	·		
as suggested by the appl	icant.	X None of the figures.		
because the applicant fail	led to suggest a figure.	•		
because this figure better characterizes the invention.				





B x I Obs rvati ns where c rtain claims were fund unsarchable (C ntinuation fitem 1 of first short)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 8-23 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
B x II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K7/56 A61K38/12

C07H7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{6}$ C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 744 405 A (LILLY CO ELI) 27 November 1996 (1996-11-27) claims, examples	1-23
Α	TURNER, W. W. ET AL: "Recent advances in the medicinal chemistry of antifungal agents" CURR. PHARM. DES. (1996), 2(2), 209-224, 1996, XP002105725 cited in the application whole document, esp. echinocandins on page 212ff, Table 3, page 219 nucleoside peptide antifungals	1-23

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 9 March 2000	Date of mailing of the international search report
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Kronester-Frei, A

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INTERNATIONAL SEARCH REPORT

 ational	Application No
YUS	99/29914

0.00	orien) DOCUMENTO CONORD	11 00 337	729914					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.								
Calegory	Onation of document, with indication, where appropriate, or the relevant passages		Helevant to claim No.					
P , Y	RUISSEN A L A ET AL: "Evaluation of the use of xanthan as vehicle for cationic antifungal peptides" JOURNAL OF CONTROLLED RELEASE, NL, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, vol. 60, no. 1, 28 June 1999 (1999-06-28), pages 49-56, XP004170490 ISSN: 0168-3659 abstract, pages 52 and 53		1-23					
Р,Ү	EP 0 943 623 A (LILLY CO ELI) 22 September 1999 (1999-09-22) claims, examples		1-23					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No US 99/29914								
family per(s)	Publication date							

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0744405	A	27-11-1996	AU CA JP WO US	5799196 A 2220728 A 11505845 T 9637510 A 5652213 A	11-12-1996 28-11-1996 25-05-1999 28-11-1996 29-07-1997
EP 0943623	Α	22-09-1999	AU WO	2686099 A 9943337 A	15-09-1999 02-09-1999